

Title (en)
METHODS FOR CONTROLLING INJECTION MOLDING PROCESSES BASED ON ACTUAL PLASTIC MELT PRESSURE OR CAVITY PRESSURE

Title (de)
VERFAHREN ZUR STEUERUNG VON SPRITZGIESSPROZESSEN AUF BASIS VON TATSÄCHLICHEM KUNSTSTOFFSCHMELZDRUCK ODER HOHLRAUMDRUCK

Title (fr)
PROCÉDÉS POUR COMMANDER DES PROCESSUS DE MOULAGE PAR INJECTION REPOSANT SUR LA PRESSION RÉELLE D'UNE MATIÈRE PLASTIQUE FONDUE OU LA PRESSION DE CAVITÉ

Publication
EP 3849772 A1 20210721 (EN)

Application
EP 19773248 A 20190906

Priority
• US 201862730597 P 20180913
• US 2019049842 W 20190906

Abstract (en)
[origin: US2020086542A1] A method for controlling an injection molding process based upon an actual plastic melt pressure including identifying an optimal actual plastic melt pressure curve over time based on a baseline cycle, and adjusting in a subsequent cycle an injection pressure in order to cause a monitored pressure of the molten thermoplastic material to follow the optimal actual plastic melt pressure curve over time. A method for controlling an injection molding process based upon an plastic melt pressure setpoint adjusted using a cavity pressure, wherein the cavity pressure is multiplied by a process factor. Further, a method for controlling an injection molding process using real time cavity pressure including identifying an optimal cavity pressure curve over time based on a baseline cycle and adjusting, in a subsequent cycle, an injection pressure in order to cause a monitored cavity pressure to follow the optimal cavity pressure curve over time.

IPC 8 full level
B29C 45/77 (2006.01)

CPC (source: EP US)
B29C 45/77 (2013.01 - EP US); **B29C 2945/76006** (2013.01 - EP US); **B29C 2945/7621** (2013.01 - EP US); **B29C 2945/76257** (2013.01 - EP US); **B29C 2945/76287** (2013.01 - US); **B29C 2945/76384** (2013.01 - EP); **B29C 2945/76498** (2013.01 - US); **B29C 2945/76936** (2013.01 - EP); **B29C 2945/76943** (2013.01 - US); **B29C 2945/76949** (2013.01 - EP)

Citation (search report)
See references of WO 2020055668A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 2020086542 A1 20200319; CA 3111343 A1 20200319; CN 112955297 A 20210611; EP 3849772 A1 20210721; EP 3849772 B1 20231220; JP 2021535855 A 20211223; MX 2021002784 A 20210325; WO 2020055668 A1 20200319

DOCDB simple family (application)
US 201916562530 A 20190906; CA 3111343 A 20190906; CN 201980073091 A 20190906; EP 19773248 A 20190906; JP 2021514035 A 20190906; MX 2021002784 A 20190906; US 2019049842 W 20190906